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4. (twice amended) A method for forming a coating film as defined in claim 1, wherein said coating film is an interlayer insulation film and is further processed by a damascene method.

5. (amended) A method for forming a coating film as defined in claim 2, wherein said coating film is an interlayer insulation film and is further processed by a damascene method.

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6. (amended) A method for forming a coating film as defined in claim 3, wherein said coating film is an interlayer insulation film and is further processed by a damascene method.

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New Claims

13. (new) A method for forming a coating film as defined in claim 1, wherein said raw material is an inorganic SOG or an organic SOG having a carbon content of 5-20 atomic weight %.

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14. (new) A method for forming a coating film as defined in claim 1, wherein said raw material is an organic SOG obtained by hydrolyzing and condensing at least one alkoxy silane compound expressed by the following equation (I) into an organic solvent under an acid catalyst,

β^7

$$\text{RnSi}(\text{OR}^1)_4 \quad \dots \dots \quad (I)$$

where R is an alkyl group or an aryl group having a carbon number of 1 - 4, R¹ is an alkyl group having a carbon number of 1 - 4, and n is an integer of 0 - 2.

15. (new) A method for forming a coating film as defined in claim 14, wherein said organic SOG is obtained by hydrolyzing and condensing at least one alkoxysilane compound expressed by the equation (I) in which $n = 1$ or $n = 2$ into an organic solvent under an acid catalyst.

16. (new) A method for forming a coating film as defined in claim 14, wherein said organic SOG is obtained by hydrolyzing and condensing an alkoxysilane compound expressed by the equation (I) in which $n = 1$ and an alkoxysilane compound expressed by the equation (I) in which $n = 0$ into an organic solvent under an acid catalyst.

17. (new) A method for forming a coating film as defined in claim 14, wherein said organic SOG is obtained by hydrolyzing and condensing an alkoxysilane compound expressed by the equation (I) in which $n = 0$, an alkoxysilane compound expressed by the equation (I) in which $n = 1$ and an alkoxysilane compound expressed by the equation (I) in which $n = 0$ into an organic solvent

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under an acid catalyst.

18. (new) A method for forming a coating film as defined in claim 1, wherein said raw material is an organic SOG obtained by hydrolyzing and condensing at least one alkoxysilane compound expressed by the following equation (I) into an organic solvent under an acid catalyst,

where R is an alkyl group or an aryl group having a carbon number of 1 - 4, and R¹ is an alkyl group having a carbon number of 1 - 4.

19. (new) A method for forming a coating film as defined in claim 18, wherein said organic SOG comprises a ladder type condensation product.